




Gerald Amiel Ballena

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Professional Summary

Experienced bioinformatician with a strong background in computational biology, phylogenetics, and metagenomics. Skilled in developing and optimizing pipelines for large-scale sequence analysis. Passionate about applying robust, innovative methodologies to solve complex biological problems.

Education

University Name

Degree, GPA: 4.0

City

Year–Year

Relevant coursework: Computational Biology, Machine Learning, Bioinformatics, Advanced Genetics

Work Experience

Organization Name

Bioinformatics Specialist

City

Year–Present

- Developed and optimized pipelines for metagenomics data analysis, including quality control and annotation.
- Conducted phylogenetic analyses to identify evolutionary relationships and adaptive traits.
- Collaborated with multidisciplinary teams to implement bioinformatics workflows.

Skills

Programming: Python, R, Bash, Perl, C++

Bioinformatics Tools: SILVA, Miniconda, RStudio, Google Earth Pro, Kraken, Trimmomatic, FastQC

Analysis: Metagenomics, Phylogenetics, Machine Learning

Other: Version Control (Git), LaTeX, Cloud Computing

Certifications

Bioconductor: DataCamp (In Progress)

Comprehensive training in bioinformatics tools.

Machine Learning for Bioinformatics: Coursera

Deep dive into AI applications in biological data.

Projects

Wastewater Metagenomics: Investigated microbial communities in urban and rural wastewater systems.

Phage Therapy Evaluation: Evaluated therapeutic effects of virulent phages in a 3D skin infection model.

Languages

English: Fluent	<i>Professional proficiency.</i>
[Other Language]: Intermediate	<i>Conversational.</i>

References

Available upon request.